

Abstract

A detector circuit is to be used for measuring current by means of substantially identically wound ring core transformers, in which magnetomotive forces are induced by a main current. The magnetomotive forces are counteracted by magnetomotive forces induced by a compensating current. Two of the ring core transformers (2, 3) are magnetized in antiphase by means of a modulation signal. The detector circuit includes optionally a synchronous rectifier for providing an adjusting signal for the compensating current. According to the invention means are provided for compensating for possible differences between the two ring core transformers for the modulation signal. These means include a common winding surrounding the two ring cores (2, 3), said common winding detecting a possible error signal used in a negative feedback loop which automatically seeks to establish an equilibrium.